CLAIMS

1. A compound of formula (I) or a pharmaceutically acceptable salt thereof:

wherein:

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R¹ represents aryl, heteroaryl,-aryl-X-aryl, -aryl-X-heteroaryl, -aryl-X-heterocyclyl, heteroaryl-X-heteroaryl, -heteroaryl-X-aryl or –heteroaryl-X-heterocyclyl;
wherein said aryl, heteroaryl and heterocyclyl groups of R¹ may be optionally substituted
by one or more (e.g. 1, 2 or 3) substituents which may be the same or different, and
which are selected from the group consisting of halogen, hydroxy, cyano, nitro, oxo,
haloC₁₋₆ alkyl, polyhaloC₁₋₆ alkyl, haloC₁₋₆ alkoxy, polyhaloC₁₋₆ alkoxy, C₁₋₆ alkyl, C₁₋₆
alkoxy, C₁₋₆ alkylthio, C₁₋₆ alkoxyC₁₋₆ alkyl, C₃₋₇ cycloalkylC₁₋₆ alkoxy, C₁₋₆ alkanoyl, C₁₋₆
alkylsulfonyl, C₁₋₆ alkylsulfonyl, C₁₋₆ alkylsulfinyl, C₁₋₆ alkylsulfonyloxy, C₁₋₆
alkylsulfonylC₁₋₆ alkyl, C₁₋₆ alkylsulfonamidoC₁₋₆ alkyl, C₁₋₆ alkylamidoC₁₋₆ alkyl, aryl,
arylsulfonyl, arylsulfonyloxy, aryloxy, arylsulfonamido, arylcarboxamido, aroyl, or a group

arylsulfonyl, arylsulfonyloxy, aryloxy, arylsulfonamido, arylcarboxamido, aroyl, or a group –COR¹⁵, -COOR¹⁵, NR¹⁵R¹⁶, -CONR¹⁵R¹⁶, -NR¹⁵COR¹⁶, -NR¹⁵SO₂R¹⁶ or -SO₂NR¹⁵R¹⁶, wherein R¹⁵ and R¹⁶ independently represent hydrogen, C₁₋₆ alkyl, haloC₁₋₆ alkyl, polyhaloC₁₋₆ alkyl or C₃₋₆ cycloalkyl or together form a heterocyclic ring;

20 X represents a bond, O, CO, SO₂, OCH₂ or CH₂O; R² represents C₃₋₈ alkyl, C₃₋₆ alkenyl, C₃₋₆ alkynyl, C₃₋₆ cycloalkyl, C₅₋₆ cycloalkenyl or -C₁₋₄ alkyl-C₃₋₆ cycloalkyl;

wherein said C_{3-6} cycloalkyl groups of R^2 may be optionally substituted by one or more (e.g. 1, 2 or 3) substituents which may be the same or different, and which are selected from the group consisting of halogen, C_{1-4} alkyl or trifluoromethyl groups;

each R³ and R⁴ group independently represents C₁₋₄ alkyl;

m and n independently represents 0, 1 or 2;

p and q independently represents 1 or 2;

or a pharmaceutically acceptable salt thereof.

2. A compound of formula (I) as defined in claim 1 wherein R¹ represents -aryl optionally substituted by a cyano, -CONR¹⁵R¹⁶, -COR¹⁶, halogen or -NR¹⁵COR¹⁶ group;

-heteroaryl optionally substituted by a cyano, C₁₋₆ alkyl, polyhaloC₁₋₆ alkyl, – CONR¹⁵R¹⁶, -COR¹⁵ or –COOR¹⁵ group;

-aryl-X-heterocyclyl;

-aryl-X-heteroaryl optionally substituted by a halogen, $C_{1-\theta}$ alkyl or aryl group; or -heteroaryl-X-heterocyclyl.

3. A compound of formula (I) as defined in claim 2 wherein R¹ represents pyrid-3-yl optionally substituted by a –CONR¹⁵R¹⁶ group, –phenyl-1,2,4-oxadiazol-5-yl optionally substituted by a C₁₆ alkyl group, phenyl optionally substituted by a –COR¹⁵ group, pyridazin-3-yl optionally substituted by a polyhaloC₁₆ alkyl group, pyrazin-2-yl optionally substituted by a polyhaloC₁₆ alkyl group.

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4. A compound of formula (I) as defined in claim 3 wherein R¹ represents pyrid-3-yl optionally substituted by a 6–CON(H)(Me) or 6–CON(H)(Et) group, 3-methyl-1,2,4-oxadiazol-5-yl, phenyl optionally substituted by a 4–COMe group, pyridazin-3-yl optionally substituted by a 6–CF₃ group or pyrimidin-5-yl optionally substituted by a 2–CF₃ group.

- 5. A compound of formula (I) as defined in any one of claims 1 to 4 wherein m and n represent 0.
- 20 6. A compound of formula (I) as defined in any one of claims 1 to 5 wherein p and q represent 1.
 - 7. A compound of formula (I) as defined in any one of claims 1 to 6 wherein R² represents C₃₋₈ alkyl, C₃₋₆ cycloalkyl or -C₁₋₄alkyl-C₃₋₆ cycloalkyl.
 - 8. A compound of formula (I) as defined in claim 7 wherein R^2 represents 1-methylpropyl, isopropyl, cyclobutyl or $-CH_2$ -cyclopropyl.
- 9. A compound of formula (I) as defined in claim 8 wherein R² represents isopropyl or cyclobutyl.
 - 10. A compound as defined in claim 1 which is a compound of formula E1-E120 or a pharmaceutically acceptable salt thereof.
- 11. A compound as defined in claim 1 which is

 1-(1-Methylethyl)-4-({1-[4-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl]-4piperidinyl}oxy)piperidine;

 5-{4-[(1-Cyclobutyl-4-piperidinyl)oxy]-1-piperidinyl}-N-methyl-2-pyridinecarboxamide;
 1-(4-{4-[(1-Cyclobutyl-4-piperidinyl)oxy]-1-piperidinyl}phenyl)ethanone;
- 3-{4-[(1-Cyclobutyl-4-piperidinyl)oxy]-1-piperidinyl}-6-(trifluoromethyl)pyridazine; or 5-{4-[(1-Cyclobutyl-4-piperidinyl)oxy]-1-piperidinyl}-2-(trifluoromethyl)pyrimidine or a pharmaceutically acceptable salt thereof.

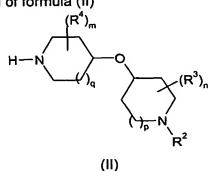
- 12. A pharmaceutical composition which comprises the compound of formula (I) as defined in any one of claims 1 to 11 or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier or excipient.
- 13. A compound as defined in any one of claims 1 to 11 for use in therapy.
- 14. A compound as defined in any one of claims 1 to 11 for use in the treatment of neurological diseases.
- 15. Use of a compound as defined in any one of claims 1 to 11 in the manufacture of a medicament for the treatment of neurological diseases.
- 16. A method of treatment of neurological diseases which comprises administering to a host in need thereof an effective amount of a compound of formula (I) as defined in any one of claims 1 to 11 or a pharmaceutically acceptable salt thereof.
 - 17. A pharmaceutical composition for use in the treatment of neurological diseases which comprises the compound of formula (I) as defined in any one of claims 1 to 11 or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier.
 - 18. A process for the preparation of a compound of formula (I) or a pharmaceutically acceptable salt thereof, which process comprises:
 - (a) reacting a compound of formula (II)

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wherein R², R³, R⁴, m, n, p and q are as defined in claim 1, with a compound of formula R¹-L¹, wherein R¹ is as defined in claim 1 and L¹ represents a suitable leaving group, such as a halogen atom; or

(b) reacting a compound of formula (III)

wherein R^1 , R^3 , R^4 , m, n, p and q are as defined in claim 1, with a compound of formula R^2 - L^2 where R^2 is as defined in claim 1 and L^2 represents a suitable leaving group, such as a halogen atom or a sulfonate such as methanesulfonate; or

- (c) reacting a compound of formula (III) as defined above with a compound of formula H- R^2 =O under reductive conditions, wherein R^2 is as defined in claim 1 for R^2 or a group convertible thereto; or
- (d) preparing a compound of formula (I) wherein p represents 1 which comprises reduction of a compound of formula (IV)

$$R^{1}$$
 N
 $(R^{4})_{m}$
 O
 C
 $(R^{3})_{n}$
 N^{+}
 C
 (IV)

- wherein R¹, R², R³, R⁴, m, n and q are as defined in claim 1 and L³ represents a suitable counter ion such as a halogen atom; or
 - (e) deprotecting a compound of formula (I) or converting groups which are protected; and optionally thereafter
 - (f) interconversion to other compounds of formula (I).

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